0280 OIPE H2

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 10/017,828 ENTERED

CRF Processing Date: 11/8/2002
Edited by: AN
Verified by: _____ (STIC staff)

☐ Changed a file from non-ASCII to ASCII

☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐ Edited a format error in the Current Application Data section, specifically:

_____

☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.

☐ Added the mandatory heading and subheadings for "Current Application Data".

☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:

_____

☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

_____

☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐ Inserted colons after headings/subheadings. Headings edited included:

_____

☐ Deleted extra, invalid, headings used by an applicant, specifically:

_____

☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____.

☐ Inserted mandatory headings, specifically: _____

☐ Corrected an obvious error in the response, specifically:

_____

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically:

_____

☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted ***ending*** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

☑ Other: Seqs 3 through 8 - inserted hard returns

_____

_____

_____

***Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.**

3/1/95

OIPE

RAW SEQUENCE LISTING DATE: 01/08/2002
PATENT APPLICATION: US/10/017,828 TIME: 15:06:51

Input Set : A:\50211.015003.SEQLIST.TXT
Output Set: N:\CRF3\01082002\J017828.raw

Does Not Comply
Corrected Diskette Needed

```
      4 <110> APPLICANT: Keith Schappert
      6 <120> TITLE OF INVENTION: METHODS FOR TREATING OR IDENTIFYING A
      7       SUBJECT AT RISK FOR A NEUROLOGICAL DISEASE BY DETERMINING
      8       THE PRESENCE OF A VARIANT GPIIIA AND/OR VARIANT GPIIB ALLELE
     11 <130> FILE REFERENCE: 50211/015003
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/017,828
C--> 13 <141> CURRENT FILING DATE: 2001-12-07
     13 <150> PRIOR APPLICATION NUMBER: 09/409,648
     14 <151> PRIOR FILING DATE: 1999-10-01
     16 <150> PRIOR APPLICATION NUMBER: 60/102,624
     17 <151> PRIOR FILING DATE: 1998-10-01
     19 <160> NUMBER OF SEQ ID NOS: 14
     21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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ERRORED SEQUENCES

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    171 <210> SEQ ID NO: 3
    172 <211> LENGTH: 788
    173 <212> TYPE: PRT
    174 <213> ORGANISM: Homo sapiens
    176 <400> SEQUENCE: 3
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    178  1               5                  10                  15
    179 Leu Gly Ala Leu Ala Gly Val Gly Val Gly Gly Pro Asn Ile Cys Thr
    180             20                  25                  30
    181 Thr Arg Gly Val Ser Ser Cys Gln Gln Cys Leu Ala Val Ser Pro Met
    182         35                  40                  45
    183 Cys Ala Trp Cys Ser Asp Glu Ala Leu Pro Leu Gly Ser Pro Arg Cys
    184     50                  55                  60
    185 Asp Leu Lys Glu Asn Leu Leu Lys Asp Asn Cys Ala Pro Glu Ser Ile
    186 65                  70                  75                  80
    187 Glu Phe Pro Val Ser Glu Ala Arg Val Leu Glu Asp Arg Pro Leu Ser
    188                 85                  90                  95
    189 Asp Lys Gly Ser Gly Asp Ser Ser Gln Val Thr Gln Val Ser Pro Gln
    190             100                 105                 110
    191 Arg Ile Ala Leu Arg Leu Arg Pro Asp Asp Ser Lys Asn Phe Ser Ile
    192         115                 120                 125
    193 Gln Val Arg Gln Val Glu Asp Tyr Pro Val Asp Ile Tyr Tyr Leu Met
    194     130                 135                 140
    195 Asp Leu Ser Tyr Ser Met Lys Asp Asp Leu Trp Ser Ile Gln Asn Leu
    196 145                 150                 155                 160
    197 Gly Thr Lys Leu Ala Thr Gln Met Arg Lys Leu Thr Ser Asn Leu Arg
    198                 165                 170                 175
    199 Ile Gly Phe Gly Ala Phe Val Asp Lys Pro Val Ser Pro Tyr Met Tyr
    200             180                 185                 190
    201 Ile Ser Pro Pro Glu Ala Leu Glu Asn Pro Cys Tyr Asp Met Lys Thr
```

RAW SEQUENCE LISTING DATE: 01/08/2002
PATENT APPLICATION: US/10/017,828 TIME: 15:06:51

Input Set : A:\50211.015003.SEQLIST.TXT
Output Set: N:\CRF3\01082002\J017828.raw

```
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203 Thr Cys Leu Pro Met Phe Gly Tyr Lys His Val Leu Thr Leu Thr Asp
204      210                 215                 220
205 Gln Val Thr Arg Phe Asn Glu Glu Val Lys Lys Gln Ser Val Ser Arg
206 225                 230                 235                 240
207 Asn Arg Asp Ala Pro Glu Gly Gly Phe Asp Ala Ile Met Gln Ala Thr
208                 245                 250                 255
209 Val Cys Asp Glu Lys Ile Gly Trp Arg Asn Asp Ala Ser His Leu Leu
210             260                 265                 270
211 Val Phe Thr Thr Asp Ala Lys Thr His Ile Ala Leu Asp Gly Arg Leu
212          275                 280                 285
213 Ala Gly Ile Val Gln Pro Asn Asp Gly Gln Cys His Val Gly Ser Asp
214      290                 295                 300
215 Asn His Tyr Ser Ala Ser Thr Thr Met Asp Tyr Pro Ser Leu Gly Leu
216 305                 310                 315                 320
217 Met Thr Glu Lys Leu Ser Gln Lys Asn Ile Asn Leu Ile Phe Ala Val
218                 325                 330                 335
219 Thr Glu Asn Val Val Asn Leu Tyr Gln Asn Tyr Ser Glu Leu Ile Pro
220             340                 345                 350
221 Gly Thr Thr Val Gly Val Leu Ser Met Asp Ser Ser Asn Val Leu Gln
222          355                 360                 365
223 Leu Ile Val Asp Ala Tyr Gly Lys Ile Arg Ser Lys Val Glu Leu Glu
224      370                 375                 380
225 Val Arg Asp Leu Pro Glu Glu Leu Ser Leu Ser Phe Asn Ala Thr Cys
226 385                 390                 395                 400
227 Leu Asn Asn Glu Val Ile Pro Gly Leu Lys Ser Cys Met Gly Leu Lys
228                 405                 410                 415
229 Ile Gly Asp Thr Val Ser Phe Ser Ile Glu Ala Lys Val Arg Gly Cys
230             420                 425                 430
231 Pro Gln Glu Lys Glu Lys Ser Phe Thr Ile Lys Pro Val Gly Phe Lys
232          435                 440                 445
233 Asp Ser Leu Ile Val Gln Val Thr Phe Asp Cys Asp Cys Ala Cys Gln
234      450                 455                 460
235 Ala Gln Ala Glu Pro Asn Ser His Arg Cys Asn Asn Gly Asn Gly Thr
236 465                 470                 475                 480
237 Phe Glu Cys Gly Val Cys Arg Cys Gly Pro Gly Trp Leu Gly Ser Gln
238                 485                 490                 495
239 Cys Glu Cys Ser Glu Glu Asp Tyr Arg Pro Ser Gln Gln Asp Glu Cys
240             500                 505                 510
241 Ser Pro Arg Glu Gly Gln Pro Val Cys Ser Gln Arg Gly Glu Cys Leu
242          515                 520                 525
243 Cys Gly Gln Cys Val Cys His Ser Ser Asp Phe Gly Lys Ile Thr Gly
244      530                 535                 540
245 Lys Tyr Cys Glu Cys Asp Asp Phe Ser Cys Val Arg Tyr Lys Gly Glu
246 545                 550                 555                 560
247 Met Cys Ser Gly His Gly Gln Cys Ser Cys Gly Asp Cys Leu Cys Asp
248                 565                 570                 575
249 Ser Asp Trp Thr Gly Tyr Tyr Cys Asn Cys Thr Thr Arg Thr Asp Thr
250             580                 585                 590
```

RAW SEQUENCE LISTING DATE: 01/08/2002
PATENT APPLICATION: US/10/017,828 TIME: 15:06:51

Input Set : A:\50211.015003.SEQLIST.TXT
Output Set: N:\CRF3\01082002\J017828.raw

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251 Cys Met Ser Ser Asn Gly Leu Leu Cys Ser Gly Arg Gly Lys Cys Glu
252         595                 600                 605
253 Cys Gly Ser Cys Val Cys Ile Gln Pro Gly Ser Tyr Gly Asp Thr Cys
254     610                 615                 620
255 Glu Lys Cys Pro Thr Cys Pro Asp Ala Cys Thr Phe Lys Lys Glu Cys
256 625                 630                 635                 640
257 Val Glu Cys Lys Lys Phe Asp Arg Glu Pro Tyr Met Thr Glu Asn Thr
258                 645                 650                 655
259 Cys Asn Arg Tyr Cys Arg Asp Glu Ile Glu Ser Val Lys Glu Leu Lys
260             660                 665                 670
261 Asp Thr Gly Lys Asp Ala Val Asn Cys Thr Tyr Lys Asn Glu Asp Asp
262         675                 680                 685
263 Cys Val Val Arg Phe Gln Tyr Tyr Glu Asp Ser Ser Gly Lys Ser Ile
264     690                 695                 700
265 Leu Tyr Val Val Glu Glu Pro Glu Cys Pro Lys Gly Pro Asp Ile Leu
266 705                 710                 715                 720
267 Val Val Leu Leu Ser Val Met Gly Ala Ile Leu Leu Ile Gly Leu Ala
268                 725                 730                 735
269 Ala Leu Leu Ile Trp Lys Leu Leu Ile Thr Ile His Asp Arg Lys Glu
270             740                 745                 750
271 Phe Ala Lys Phe Glu Glu Glu Arg Ala Arg Ala Lys Trp Asp Thr Ala
E--> 272
   755                 760                 765
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Asn Asn Pro Leu Tyr Lys Glu Ala

insert hard return

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275 <211> LENGTH: 788
276 <212> TYPE: PRT
277 <213> ORGANISM: Homo sapiens
279 <400> SEQUENCE: 4
280 Met Arg Ala Arg Pro Arg Pro Arg Pro Leu Trp Val Thr Val Leu Ala
281  1               5                  10                  15
282 Leu Gly Ala Leu Ala Gly Val Gly Val Gly Gly Pro Asn Ile Cys Thr
283             20                  25                  30
284 Thr Arg Gly Val Ser Ser Cys Gln Gln Cys Leu Ala Val Ser Pro Met
285         35                  40                  45
286 Cys Ala Trp Cys Ser Asp Glu Ala Leu Pro Pro Gly Ser Pro Arg Cys
287     50                  55                  60
288 Asp Leu Lys Glu Asn Leu Leu Lys Asp Asn Cys Ala Pro Glu Ser Ile
289 65                  70                  75                  80
290 Glu Phe Pro Val Ser Glu Ala Arg Val Leu Glu Asp Arg Pro Leu Ser
291                 85                  90                  95
292 Asp Lys Gly Ser Gly Asp Ser Ser Gln Val Thr Gln Val Ser Pro Gln
293             100                 105                 110
294 Arg Ile Ala Leu Arg Leu Arg Pro Asp Asp Ser Lys Asn Phe Ser Ile
295         115                 120                 125
296 Gln Val Arg Gln Val Glu Asp Tyr Pro Val Asp Ile Tyr Tyr Leu Met
297     130                 135                 140
298 Asp Leu Ser Tyr Ser Met Lys Asp Asp Leu Trp Ser Ile Gln Asn Leu
299 145                 150                 155                 160
300 Gly Thr Lys Leu Ala Thr Gln Met Arg Lys Leu Thr Ser Asn Leu Arg
301                 165                 170                 175
```

RAW SEQUENCE LISTING DATE: 01/08/2002
PATENT APPLICATION: US/10/017,828 TIME: 15:06:51

Input Set : A:\50211.015003.SEQLIST.TXT
Output Set: N:\CRF3\01082002\J017828.raw

```
302 Ile Gly Phe Gly Ala Phe Val Asp Lys Pro Val Ser Pro Tyr Met Tyr
303             180                 185                 190
304 Ile Ser Pro Pro Glu Ala Leu Glu Asn Pro Cys Tyr Asp Met Lys Thr
305         195                 200                 205
306 Thr Cys Leu Pro Met Phe Gly Tyr Lys His Val Leu Thr Leu Thr Asp
307     210                 215                 220
308 Gln Val Thr Arg Phe Asn Glu Glu Val Lys Lys Gln Ser Val Ser Arg
309 225                 230                 235                 240
310 Asn Arg Asp Ala Pro Glu Gly Gly Phe Asp Ala Ile Met Gln Ala Thr
311                 245                 250                 255
312 Val Cys Asp Glu Lys Ile Gly Trp Arg Asn Asp Ala Ser His Leu Leu
313             260                 265                 270
314 Val Phe Thr Thr Asp Ala Lys Thr His Ile Ala Leu Asp Gly Arg Leu
315         275                 280                 285
316 Ala Gly Ile Val Gln Pro Asn Asp Gly Gln Cys His Val Gly Ser Asp
317     290                 295                 300
318 Asn His Tyr Ser Ala Ser Thr Thr Met Asp Tyr Pro Ser Leu Gly Leu
319 305                 310                 315                 320
320 Met Thr Glu Lys Leu Ser Gln Lys Asn Ile Asn Leu Ile Phe Ala Val
321                 325                 330                 335
322 Thr Glu Asn Val Val Asn Leu Tyr Gln Asn Tyr Ser Glu Leu Ile Pro
323             340                 345                 350
324 Gly Thr Thr Val Gly Val Leu Ser Met Asp Ser Ser Asn Val Leu Gln
325         355                 360                 365
326 Leu Ile Val Asp Ala Tyr Gly Lys Ile Arg Ser Lys Val Glu Leu Glu
327     370                 375                 380
328 Val Arg Asp Leu Pro Glu Glu Leu Ser Leu Ser Phe Asn Ala Thr Cys
329 385                 390                 395                 400
330 Leu Asn Asn Glu Val Ile Pro Gly Leu Lys Ser Cys Met Gly Leu Lys
331                 405                 410                 415
332 Ile Gly Asp Thr Val Ser Phe Ser Ile Glu Ala Lys Val Arg Gly Cys
333             420                 425                 430
334 Pro Gln Glu Lys Glu Lys Ser Phe Thr Ile Lys Pro Val Gly Phe Lys
335         435                 440                 445
336 Asp Ser Leu Ile Val Gln Val Thr Phe Asp Cys Asp Cys Ala Cys Gln
337     450                 455                 460
338 Ala Gln Ala Glu Pro Asn Ser His Arg Cys Asn Asn Gly Asn Gly Thr
339 465                 470                 475                 480
340 Phe Glu Cys Gly Val Cys Arg Cys Gly Pro Gly Trp Leu Gly Ser Gln
341                 485                 490                 495
342 Cys Glu Cys Ser Glu Glu Asp Tyr Arg Pro Ser Gln Gln Asp Glu Cys
343             500                 505                 510
344 Ser Pro Arg Glu Gly Gln Pro Val Cys Ser Gln Arg Gly Glu Cys Leu
345         515                 520                 525
346 Cys Gly Gln Cys Val Cys His Ser Ser Asp Phe Gly Lys Ile Thr Gly
347     530                 535                 540
348 Lys Tyr Cys Glu Cys Asp Asp Phe Ser Cys Val Arg Tyr Lys Gly Glu
349 545                 550                 555                 560
350 Met Cys Ser Gly His Gly Gln Cys Ser Cys Gly Asp Cys Leu Cys Asp
```

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Input Set : A:\50211.015003.SEQLIST.TXT
Output Set: N:\CRF3\01082002\J017828.raw

```
351                 565                 570                 575
352 Ser Asp Trp Thr Gly Tyr Tyr Cys Asn Cys Thr Thr Arg Thr Asp Thr
353             580                 585                 590
354 Cys Met Ser Ser Asn Gly Leu Leu Cys Ser Gly Arg Gly Lys Cys Glu
355         595                 600                 605
356 Cys Gly Ser Cys Val Cys Ile Gln Pro Gly Ser Tyr Gly Asp Thr Cys
357     610                 615                 620
358 Glu Lys Cys Pro Thr Cys Pro Asp Ala Cys Thr Phe Lys Lys Glu Cys
359 625                 630                 635                 640
360 Val Glu Cys Lys Lys Phe Asp Arg Glu Pro Tyr Met Thr Glu Asn Thr
361                 645                 650                 655
362 Cys Asn Arg Tyr Cys Arg Asp Glu Ile Glu Ser Val Lys Glu Leu Lys
363             660                 665                 670
364 Asp Thr Gly Lys Asp Ala Val Asn Cys Thr Tyr Lys Asn Glu Asp Asp
365         675                 680                 685
366 Cys Val Val Arg Phe Gln Tyr Tyr Glu Asp Ser Ser Gly Lys Ser Ile
367     690                 695                 700
368 Leu Tyr Val Val Glu Glu Pro Glu Cys Pro Lys Gly Pro Asp Ile Leu
369 705                 710                 715                 720
370 Val Val Leu Leu Ser Val Met Gly Ala Ile Leu Leu Ile Gly Leu Ala
371                 725                 730                 735
372 Ala Leu Leu Ile Trp Lys Leu Leu Ile Thr Ile His Asp Arg Lys Glu
373             740                 745                 750
374 Phe Ala Lys Phe Glu Glu Glu Arg Ala Arg Ala Lys Trp Asp Thr Ala
E--> 375
   755                 760                 765             Asn Asn Pro Leu Tyr Lys Glu Ala
```

same
ever

```
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378 <211> LENGTH: 3303
379 <212> TYPE: DNA
380 <213> ORGANISM: Homo sapiens
382 <400> SEQUENCE: 5
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384 cttgggacct tgtgctgccc ctccagcctg ggccttgaac ctggacccag tgcagctcac     120
385 cttctatgca ggccccaatg gcagccagtt tggattttca ctggacttcc acaaggacag     180
386 ccatgggaga gtggccatcg tggtgggcgc cccgcggacc ctgggcccca gccaggagga     240
387 gacgggcggc gtgttcctgt gcccctggag ggccgagggc ggccagtgcc cctcgctgct     300
388 ctttgacctc cgtgatgaga cccgaaatgt aggctcccaa actttacaaa ccttcaaggc     360
389 ccgccaagga ctgggggcgt cggtcgtcag ctggagcgac gtcattgtgg cctgcgcccc     420
390 ctggcagcac tggaacgtcc tagaaaagac tgaggaggct gagaagacgc ccgtaggtag     480
391 ctgctttttg gctcagccag agagcggccg ccgcgccgag tactcccgct gtcgcgggaa     540
392 caccctgagc cgcatttacg tggaaaatga ttttagctgg gacaagcgtt actgtgaagc     600
393 gggcttcagc tccgtggtca ctcaggccgg agagctggtg cttggggctc ctggcggcta     660
394 ttatttctta ggtctcctgg cccaggctcc agttgcggat attttctcga gttaccgccc     720
395 aggcatcctt ttgtggcacg tgtcctccca gagcctctcc tttgactcca gcaacccaga     780
396 gtacttcgac ggctactggg ggtactcggt ggccgtgggc gagttcgacg gggatctcaa     840
397 cactacagaa tatgtcgtcg gtgcccccac ttggagctgg accctgggag cggtggaaat     900
398 tttggattcc tactaccaga ggctgcatcg gctgcgcgca gagcagatgg cgtcgtattt     960
399 tgggcattca gtggctgtca ctgacgtcaa cggggatggg aggcatgatc tgctggtggg    1020
400 cgctccactg tatatggaga gccgggcaga ccgaaaactg gccgaagtgg ggcgtgtgta    1080
401 tttgttcctg cagccgcgag gcccccacgc gctgggtgcc cccagcctcc tgctgactgg    1140
```

RAW SEQUENCE LISTING DATE: 01/08/2002
PATENT APPLICATION: US/10/017,828 TIME: 15:06:51

Input Set : A:\50211.015003.SEQLIST.TXT
Output Set: N:\CRF3\01082002\J017828.raw

402 cacacagctc tatgggcgat tcggctctgc catcgcaccc ctgggcgacc tcgaccggga 1200
403 tggctacaat gacattgcag tggctgcccc ctacgggggt cccagtggcc ggggccaagt 1260
404 gctggtgttc ctgggtcaga gtgaggggct gaggtcacgt ccctcccagg tcctggacag 1320
405 ccccttcccc acaggctctg cctttggctt ctcccttcga ggtgccgtag acatcgatga 1380
406 caacggatac ccagacctga tcgtgggagc ttacggggcc aaccaggtgg ctgtgtacag 1440
407 agctcagcca gtggtgaagg cctctgtcca gctactggtg caagattcac tgaatcctgc 1500
408 tgtgaagagc tgtgtcctac ctcagaccaa gacacccgtg agctgcttca acatccagat 1560
409 gtgtgttgga gccactgggc acaacattcc tcagaagcta tccctaaatg ccgagctgca 1620
410 gctggaccgg cagaagcccc gccagggccg gcgggtgctg ctgctgggct ctcaacaggc 1680
411 aggcaccacc ctgaacctgg atctgggcgg aaagcacagc cccatctgcc acaccaccat 1740
412 ggccttcctt cgagatgagg cagacttccg ggacaagctg agccccattg tgctcagcct 1800
413 caatgtgtcc ctaccgccca cggaggctgg aatggccct gctgtcgtgc tgcatggaga 1860
414 cacccatgtg caggagcaga cacgaatcgt cctggactct ggggaagatg acgtatgtgt 1920
415 gccccagctt cagctcactg ccagcgtgac gggctccccg ctcctagttg gggcagataa 1980
416 tgtcctggag ctgcagatgg acgcagccaa cgagggcgag ggggcctatg aagcagagct 2040
417 ggccgtgcac ctgccccagg gcgcccacta catgcgggcc ctaagcaatg tcgagggctt 2100
418 tgagagactc atctgtaatc agaagaagga gaatgagacc agggtggtgc tgtgtgagct 2160
419 gggcaacccc atgaagaaga acgcccagat aggaatcgcg atgttggtga gcgtggggaa 2220
420 tctggaagag gctggggagt ctgtgtcctt ccagctgcag atacggagca agaacagcca 2280
421 gaatccaaac agcaagattg tgctgctgga cgtgccggtc cgggcagagg cccaagtgga 2340
422 gctgcgaggg aactcctttc cagcctccct ggtggtggca gcagaagaag gtgagaggga 2400
423 gcagaacagc ttggacagct ggggacccaa agtggagcac acctatgagc tccacaacaa 2460
424 tggccctggg actgtgaatg gtcttcacct cagcatccac cttccgggac agtcccagcc 2520
425 ctccgacctg ctctacatcc tggatataca gccccagggg ggccttcagt gcttcccaca 2580
426 gcctcctgtc aaccctctca aggtggactg ggggctgccc atccccagcc cctcccccat 2640
427 tcacccggcc catcacaagc gggatcgcag acagatcttc ctgccagagc ccgagcagcc 2700
428 ctcgaggctt caggatccag ttctcgtaag ctgcgactcg gcgccctgta ctgtggtgca 2760
429 gtgtgacctg caggagatgg cgcgcgggca gcgggccatg gtcacggtgc tggccttcct 2820
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431 gttcaacgtg tcctccctcc cctatgcggt gcccccgctc agcctgcccc gaggggaagc 2940
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433 gctggtgggt gtgctgggtg gcctgctgct gctcaccatc ctggtcctgg ccatgtggaa 3060
434 ggtcggcttc ttcaagcgga accggccacc cctggaagaa gatgatgaag agggggagtg 3120
435 atggtgcagc ctacactatt ctagcaggag ggttgggcgt gctacctgca ccgccccttc 3180
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438 <210> SEQ ID NO: 6
439 <211> LENGTH: 3303
440 <212> TYPE: DNA
441 <213> ORGANISM: Homo sapiens
443 <400> SEQUENCE: 6
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446 cttctatgca ggccccaatg gcagccagtt tggattttca ctggacttcc acaaggacag 180
447 ccatgggaga gtggccatcg tggtgggcgc cccgcggacc ctgggcccca gccaggagga 240
448 gacgggcggc gtgttcctgt gcccctggag ggccgagggc ggccagtgcc cctcgctgct 300
449 ctttgacctc cgtgatgaga cccgaaatgt aggctcccaa actttacaaa ccttcaaggc 360
450 ccgccaagga ctgggggcgt cggtcgtcag ctggagcgac gtcattgtgg cctgcgcccc 420
451 ctggcagcac tggaacgtcc tagaaaagac tgaggaggct gagaagacgc ccgtaggtag 480
452 ctgctttttg gctcagccag agagcggccg ccgcgccgag tactcccct gtcgcgggaa 540

None

RAW SEQUENCE LISTING DATE: 01/08/2002
PATENT APPLICATION: US/10/017,828 TIME: 15:06:51

Input Set : A:\50211.015003.SEQLIST.TXT
Output Set: N:\CRF3\01082002\J017828.raw

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 455 ttatttctta ggtctcctgg cccaggctcc agttgcggat attttctcga gttaccgccc     720
 456 aggcatcctt ttgtggcacg tgtcctccca gagcctctcc tttgactcca gcaacccaga     780
 457 gtacttcgac ggctactggg ggtactcggt ggccgtgggc gagttcgacg gggatctcaa     840
 458 cactacagaa tatgtcgtcg gtgcccccac ttggagctgg accctgggag cggtggaaat     900
 459 tttggattcc tactaccaga ggctgcatcg gctgcgcgca gagcagatgg cgtcgtattt     960
 460 tgggcattca gtggctgtca ctgacgtcaa cggggatggg aggcatgatc tgctggtggg    1020
 461 cgctccactg tatatggaga gccgggcaga ccgaaaactg gccgaagtgg ggcgtgtgta    1080
 462 tttgttcctg cagccgcgag gcccccacgc gctgggtgcc cccagcctcc tgctgactgg    1140
 463 cacacagctc tatgggcgat tcggctctgc catcgcaccc ctgggcgacc tcgaccggga    1200
 464 tggctacaat gacattgcag tggctgcccc ctacgggggt cccagtggcc ggggccaagt    1260
 465 gctggtgttc ctgggtcaga gtgaggggct gaggtcacgt ccctcccagg tcctggacag    1320
 466 ccccttcccc acaggctctg cctttggctt ctcccttcga ggtgccgtag acatcgatga    1380
 467 caacggatac ccagacctga tcgtgggagc ttacggggcc aaccaggtgg ctgtgtacag    1440
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 470 gtgtgttgga gccactgggc acaacattcc tcagaagcta tccctaaatg ccgagctgca    1620
 471 gctggaccgg cagaagcccc gccagggccg gcgggtgctg ctgctgggct ctcaacaggc    1680
 472 aggcaccacc ctgaacctgg atctgggcgg aaagcacagc cccatctgcc acaccaccat    1740
 473 ggccttcctt cgagatgagg cagacttccg ggacaagctg agccccattg tgctcagcct    1800
 474 caatgtgtcc ctaccgccca cggaggctgg aatggccct gctgtcgtgc tgcatggaga    1860
 475 cacccatgtg caggagcaga cacgaatcgt cctggactct ggggaagatg acgtatgtgt    1920
 476 gccccagctt cagctcactg ccagcgtgac gggctccccg ctcctagttg gggcagataa    1980
 477 tgtcctggag ctgcagatgg acgcagccaa cgagggcgag ggggcctatg aagcagagct    2040
 478 ggccgtgcac ctgccccagg gcgcccacta catgcgggcc ctaagcaatg tcgagggctt    2100
 479 tgagagactc atctgtaatc agaagaagga gaatgagacc agggtggtgc tgtgtgagct    2160
 480 gggcaacccc atgaagaaga acgcccagat aggaatcgcg atgttggtga gcgtggggaa    2220
 481 tctggaagag gctggggagt ctgtgtcctt ccagctgcag atacggagca agaacagcca    2280
 482 gaatccaaac agcaagattg tgctgctgga cgtgccggtc cgggcagagg cccaagtgga    2340
 483 gctgcgaggg aactcctttc cagcctccct ggtggtggca gcagaagaag gtgagaggga    2400
 484 gcagaacagc ttggacagct ggggacccaa agtggagcac acctatgagc tccacaacaa    2460
 485 tggccctggg actgtgaatg gtcttcacct cagcatccac cttccgggac agtcccagcc    2520
 486 ctccgacctg ctctacatcc tggatataca gccccagggg ggccttcagt gcttcccaca    2580
 487 gcctcctgtc aaccctctca aggtggactg ggggctgccc agccccagcc cctcccccat    2640
 488 tcacccggcc catcacaagc gggatcgcag acagatcttc ctgccagagc ccgagcagcc    2700
 489 ctcgaggctt caggatccag ttctcgtaag ctgcgactcg gcgccctgta ctgtggtgca    2760
 490 gtgtgacctg caggagatgg cgcgcgggca gcgggccatg gtcacggtgc tggccttcct    2820
 491 gtggctgccc agcctctacc agaggcctct ggatcagttt gtgctgcagt cgcacgcatg    2880
 492 gttcaacgtg tcctccctcc cctatgcggt gcccccgctc agcctgcccc gaggggaagc    2940
 493 tcaggtgtgg acacagctgc tccgggcctt ggaggagagg gccattccaa tctggtgggt    3000
 494 gctggtgggt gtgctgggtg gcctgctgct gctcaccatc ctggtcctgg ccatgtggaa    3060
 495 ggtcggcttc ttcaagcgga accggccacc cctggaagaa gatgatgaag aggggagtg     3120
 496 atggtgcagc ctacactatt ctagcaggag ggttgggcgt gctacctgca ccgccccttc    3180
E--> 497
tccaacaagt tgcctccaag ctttgggttg gagctgttcc attgggtcct cttggtgtcg    3240tttccctccc aacagagctg
 499 <210> SEQ ID NO: 7
 500 <211> LENGTH: 1039
 501 <212> TYPE: PRT
 502 <213> ORGANISM: Homo sapiens
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Same

RAW SEQUENCE LISTING DATE: 01/08/2002
PATENT APPLICATION: US/10/017,828 TIME: 15:06:51

Input Set : A:\50211.015003.SEQLIST.TXT
Output Set: N:\CRF3\01082002\J017828.raw

504 <400> SEQUENCE: 7
505 Met Ala Arg Ala Leu Cys Pro Leu Gln Ala Leu Trp Leu Leu Glu Trp
506 1 5 10 15
507 Val Leu Leu Leu Leu Gly Pro Cys Ala Ala Pro Pro Ala Trp Ala Leu
508 20 25 30
509 Asn Leu Asp Pro Val Gln Leu Thr Phe Tyr Ala Gly Pro Asn Gly Ser
510 35 40 45
511 Gln Phe Gly Phe Ser Leu Asp Phe His Lys Asp Ser His Gly Arg Val
512 50 55 60
513 Ala Ile Val Val Gly Ala Pro Arg Thr Leu Gly Pro Ser Gln Glu Glu
514 65 70 75 80
515 Thr Gly Gly Val Phe Leu Cys Pro Trp Arg Ala Glu Gly Gly Gln Cys
516 85 90 95
517 Pro Ser Leu Leu Phe Asp Leu Arg Asp Glu Thr Arg Asn Val Gly Ser
518 100 105 110
519 Gln Thr Leu Gln Thr Phe Lys Ala Arg Gln Gly Leu Gly Ala Ser Val
520 115 120 125
521 Val Ser Trp Ser Asp Val Ile Val Ala Cys Ala Pro Trp Gln His Trp
522 130 135 140
523 Asn Val Leu Glu Lys Thr Glu Glu Ala Glu Lys Thr Pro Val Gly Ser
524 145 150 155 160
525 Cys Phe Leu Ala Gln Pro Glu Ser Gly Arg Arg Ala Glu Tyr Ser Pro
526 165 170 175
527 Cys Arg Gly Asn Thr Leu Ser Arg Ile Tyr Val Glu Asn Asp Phe Ser
528 180 185 190
529 Trp Asp Lys Arg Tyr Cys Glu Ala Gly Phe Ser Ser Val Val Thr Gln
530 195 200 205
531 Ala Gly Glu Leu Val Leu Gly Ala Pro Gly Gly Tyr Tyr Phe Leu Gly
532 210 215 220
533 Leu Leu Ala Gln Ala Pro Val Ala Asp Ile Phe Ser Ser Tyr Arg Pro
534 225 230 235 240
535 Gly Ile Leu Leu Trp His Val Ser Ser Gln Ser Leu Ser Phe Asp Ser
536 245 250 255
537 Ser Asn Pro Glu Tyr Phe Asp Gly Tyr Trp Gly Tyr Ser Val Ala Val
538 260 265 270
539 Gly Glu Phe Asp Gly Asp Leu Asn Thr Thr Glu Tyr Val Val Gly Ala
540 275 280 285
541 Pro Thr Trp Ser Trp Thr Leu Gly Ala Val Glu Ile Leu Asp Ser Tyr
542 290 295 300
543 Tyr Gln Arg Leu His Arg Leu Arg Ala Glu Gln Met Ala Ser Tyr Phe
544 305 310 315 320
545 Gly His Ser Val Ala Val Thr Asp Val Asn Gly Asp Gly Arg His Asp
546 325 330 335
547 Leu Leu Val Gly Ala Pro Leu Tyr Met Glu Ser Arg Ala Asp Arg Lys
548 340 345 350
549 Leu Ala Glu Val Gly Arg Val Tyr Leu Phe Leu Gln Pro Arg Gly Pro
550 355 360 365
551 His Ala Leu Gly Ala Pro Ser Leu Leu Leu Thr Gly Thr Gln Leu Tyr
552 370 375 380

RAW SEQUENCE LISTING DATE: 01/08/2002
PATENT APPLICATION: US/10/017,828 TIME: 15:06:51

Input Set : A:\50211.015003.SEQLIST.TXT
Output Set: N:\CRF3\01082002\J017828.raw

```
553 Gly Arg Phe Gly Ser Ala Ile Ala Pro Leu Gly Asp Leu Asp Arg Asp
554 385                 390                 395                 400
555 Gly Tyr Asn Asp Ile Ala Val Ala Ala Pro Tyr Gly Gly Pro Ser Gly
556                 405                 410                 415
557 Arg Gly Gln Val Leu Val Phe Leu Gly Gln Ser Glu Gly Leu Arg Ser
558             420                 425                 430
559 Arg Pro Ser Gln Val Leu Asp Ser Pro Phe Pro Thr Gly Ser Ala Phe
560         435                 440                 445
561 Gly Phe Ser Leu Arg Gly Ala Val Asp Ile Asp Asp Asn Gly Tyr Pro
562     450                 455                 460
563 Asp Leu Ile Val Gly Ala Tyr Gly Ala Asn Gln Val Ala Val Tyr Arg
564 465                 470                 475                 480
565 Ala Gln Pro Val Val Lys Ala Ser Val Gln Leu Leu Val Gln Asp Ser
566                 485                 490                 495
567 Leu Asn Pro Ala Val Lys Ser Cys Val Leu Pro Gln Thr Lys Thr Pro
568             500                 505                 510
569 Val Ser Cys Phe Asn Ile Gln Met Cys Val Gly Ala Thr Gly His Asn
570         515                 520                 525
571 Ile Pro Gln Lys Leu Ser Leu Asn Ala Glu Leu Gln Leu Asp Arg Gln
572     530                 535                 540
573 Lys Pro Arg Gln Gly Arg Arg Val Leu Leu Leu Gly Ser Gln Gln Ala
574 545                 550                 555                 560
575 Gly Thr Thr Leu Asn Leu Asp Leu Gly Gly Lys His Ser Pro Ile Cys
576                 565                 570                 575
577 His Thr Thr Met Ala Phe Leu Arg Asp Glu Ala Asp Phe Arg Asp Lys
578             580                 585                 590
579 Leu Ser Pro Ile Val Leu Ser Leu Asn Val Ser Leu Pro Pro Thr Glu
580         595                 600                 605
581 Ala Gly Met Ala Pro Ala Val Val Leu His Gly Asp Thr His Val Gln
582     610                 615                 620
583 Glu Gln Thr Arg Ile Val Leu Asp Ser Gly Glu Asp Asp Val Cys Val
584 625                 630                 635                 640
585 Pro Gln Leu Gln Leu Thr Ala Ser Val Thr Gly Ser Pro Leu Leu Val
586                 645                 650                 655
587 Gly Ala Asp Asn Val Leu Glu Leu Gln Met Asp Ala Ala Asn Glu Gly
588             660                 665                 670
589 Glu Gly Ala Tyr Glu Ala Glu Leu Ala Val His Leu Pro Gln Gly Ala
590         675                 680                 685
591 His Tyr Met Arg Ala Leu Ser Asn Val Glu Gly Phe Glu Arg Leu Ile
592     690                 695                 700
593 Cys Asn Gln Lys Lys Glu Asn Glu Thr Arg Val Val Leu Cys Glu Leu
594 705                 710                 715                 720
595 Gly Asn Pro Met Lys Lys Asn Ala Gln Ile Gly Ile Ala Met Leu Val
596                 725                 730                 735
597 Ser Val Gly Asn Leu Glu Glu Ala Gly Glu Ser Val Ser Phe Gln Leu
598             740                 745                 750
599 Gln Ile Arg Ser Lys Asn Ser Gln Asn Pro Asn Ser Lys Ile Val Leu
600         755                 760                 765
601 Leu Asp Val Pro Val Arg Ala Glu Ala Gln Val Glu Leu Arg Gly Asn
```

RAW SEQUENCE LISTING DATE: 01/08/2002
PATENT APPLICATION: US/10/017,828 TIME: 15:06:51

Input Set : A:\50211.015003.SEQLIST.TXT
Output Set: N:\CRF3\01082002\J017828.raw

```
602     770                 775                 780
603 Ser Phe Pro Ala Ser Leu Val Val Ala Ala Glu Glu Gly Glu Arg Glu
604 785                 790                 795                 800
605 Gln Asn Ser Leu Asp Ser Trp Gly Pro Lys Val Glu His Thr Tyr Glu
606                 805                 810                 815
607 Leu His Asn Asn Gly Pro Gly Thr Val Asn Gly Leu His Leu Ser Ile
608             820                 825                 830
609 His Leu Pro Gly Gln Ser Gln Pro Ser Asp Leu Leu Tyr Ile Leu Asp
610         835                 840                 845
611 Ile Gln Pro Gln Gly Gly Leu Gln Cys Phe Pro Gln Pro Pro Val Asn
612     850                 855                 860
613 Pro Leu Lys Val Asp Trp Gly Leu Pro Ile Pro Ser Pro Ser Pro Ile
614 865                 870                 875                 880
615 His Pro Ala His His Lys Arg Asp Arg Arg Gln Ile Phe Leu Pro Glu
616                 885                 890                 895
617 Pro Glu Gln Pro Ser Arg Leu Gln Asp Pro Val Leu Val Ser Cys Asp
618             900                 905                 910
619 Ser Ala Pro Cys Thr Val Val Gln Cys Asp Leu Gln Glu Met Ala Arg
620         915                 920                 925
621 Gly Gln Arg Ala Met Val Thr Val Leu Ala Phe Leu Trp Leu Pro Ser
622     930                 935                 940
623 Leu Tyr Gln Arg Pro Leu Asp Gln Phe Val Leu Gln Ser His Ala Trp
624 945                 950                 955                 960
625 Phe Asn Val Ser Ser Leu Pro Tyr Ala Val Pro Pro Leu Ser Leu Pro
626                 965                 970                 975
627 Arg Gly Glu Ala Gln Val Trp Thr Gln Leu Leu Arg Ala Leu Glu Glu
628             980                 985                 990
629 Arg Ala Ile Pro Ile Trp Trp Val Leu Val Gly Val Leu Gly Gly Leu
630         995                 1000                1005
E--> 631
Leu Leu Leu Thr Ile Leu Val Leu Ala Met Trp Lys Val Gly Phe Phe    1010                1015
633 <210> SEQ ID NO: 8
634 <211> LENGTH: 1039
635 <212> TYPE: PRT
636 <213> ORGANISM: Homo sapiens
638 <400> SEQUENCE: 8
639 Met Ala Arg Ala Leu Cys Pro Leu Gln Ala Leu Trp Leu Leu Glu Trp
640  1               5                  10                  15
641 Val Leu Leu Leu Leu Gly Pro Cys Ala Ala Pro Pro Ala Trp Ala Leu
642             20                  25                  30
643 Asn Leu Asp Pro Val Gln Leu Thr Phe Tyr Ala Gly Pro Asn Gly Ser
644         35                  40                  45
645 Gln Phe Gly Phe Ser Leu Asp Phe His Lys Asp Ser His Gly Arg Val
646     50                  55                  60
647 Ala Ile Val Val Gly Ala Pro Arg Thr Leu Gly Pro Ser Gln Glu Glu
648 65                  70                  75                  80
649 Thr Gly Gly Val Phe Leu Cys Pro Trp Arg Ala Glu Gly Gly Gln Cys
650                 85                  90                  95
651 Pro Ser Leu Leu Phe Asp Leu Arg Asp Glu Thr Arg Asn Val Gly Ser
652             100                 105                 110
```

RAW SEQUENCE LISTING DATE: 01/08/2002
PATENT APPLICATION: US/10/017,828 TIME: 15:06:51

Input Set : A:\50211.015003.SEQLIST.TXT
Output Set: N:\CRF3\01082002\J017828.raw

```
653 Gln Thr Leu Gln Thr Phe Lys Ala Arg Gln Gly Leu Gly Ala Ser Val
654         115                 120                 125
655 Val Ser Trp Ser Asp Val Ile Val Ala Cys Ala Pro Trp Gln His Trp
656     130                 135                 140
657 Asn Val Leu Glu Lys Thr Glu Glu Ala Glu Lys Thr Pro Val Gly Ser
658 145                 150                 155                 160
659 Cys Phe Leu Ala Gln Pro Glu Ser Gly Arg Arg Ala Glu Tyr Ser Pro
660                 165                 170                 175
661 Cys Arg Gly Asn Thr Leu Ser Arg Ile Tyr Val Glu Asn Asp Phe Ser
662             180                 185                 190
663 Trp Asp Lys Arg Tyr Cys Glu Ala Gly Phe Ser Ser Val Val Thr Gln
664         195                 200                 205
665 Ala Gly Glu Leu Val Leu Gly Ala Pro Gly Gly Tyr Tyr Phe Leu Gly
666     210                 215                 220
667 Leu Leu Ala Gln Ala Pro Val Ala Asp Ile Phe Ser Ser Tyr Arg Pro
668 225                 230                 235                 240
669 Gly Ile Leu Leu Trp His Val Ser Ser Gln Ser Leu Ser Phe Asp Ser
670                 245                 250                 255
671 Ser Asn Pro Glu Tyr Phe Asp Gly Tyr Trp Gly Tyr Ser Val Ala Val
672             260                 265                 270
673 Gly Glu Phe Asp Gly Asp Leu Asn Thr Thr Glu Tyr Val Val Gly Ala
674         275                 280                 285
675 Pro Thr Trp Ser Trp Thr Leu Gly Ala Val Glu Ile Leu Asp Ser Tyr
676     290                 295                 300
677 Tyr Gln Arg Leu His Arg Leu Arg Ala Glu Gln Met Ala Ser Tyr Phe
678 305                 310                 315                 320
679 Gly His Ser Val Ala Val Thr Asp Val Asn Gly Asp Gly Arg His Asp
680                 325                 330                 335
681 Leu Leu Val Gly Ala Pro Leu Tyr Met Glu Ser Arg Ala Asp Arg Lys
682             340                 345                 350
683 Leu Ala Glu Val Gly Arg Val Tyr Leu Phe Leu Gln Pro Arg Gly Pro
684         355                 360                 365
685 His Ala Leu Gly Ala Pro Ser Leu Leu Leu Thr Gly Thr Gln Leu Tyr
686     370                 375                 380
687 Gly Arg Phe Gly Ser Ala Ile Ala Pro Leu Gly Asp Leu Asp Arg Asp
688 385                 390                 395                 400
689 Gly Tyr Asn Asp Ile Ala Val Ala Ala Pro Tyr Gly Gly Pro Ser Gly
690                 405                 410                 415
691 Arg Gly Gln Val Leu Val Phe Leu Gly Gln Ser Glu Gly Leu Arg Ser
692             420                 425                 430
693 Arg Pro Ser Gln Val Leu Asp Ser Pro Phe Pro Thr Gly Ser Ala Phe
694         435                 440                 445
695 Gly Phe Ser Leu Arg Gly Ala Val Asp Ile Asp Asp Asn Gly Tyr Pro
696     450                 455                 460
697 Asp Leu Ile Val Gly Ala Tyr Gly Ala Asn Gln Val Ala Val Tyr Arg
698 465                 470                 475                 480
699 Ala Gln Pro Val Val Lys Ala Ser Val Gln Leu Leu Val Gln Asp Ser
700                 485                 490                 495
701 Leu Asn Pro Ala Val Lys Ser Cys Val Leu Pro Gln Thr Lys Thr Pro
```

RAW SEQUENCE LISTING DATE: 01/08/2002
PATENT APPLICATION: US/10/017,828 TIME: 15:06:51

Input Set : A:\50211.015003.SEQLIST.TXT
Output Set: N:\CRF3\01082002\J017828.raw

```
702                 500                 505                 510
703 Val Ser Cys Phe Asn Ile Gln Met Cys Val Gly Ala Thr Gly His Asn
704         515                 520                 525
705 Ile Pro Gln Lys Leu Ser Leu Asn Ala Glu Leu Gln Leu Asp Arg Gln
706     530                 535                 540
707 Lys Pro Arg Gln Gly Arg Arg Val Leu Leu Leu Gly Ser Gln Gln Ala
708 545                 550                 555                 560
709 Gly Thr Thr Leu Asn Leu Asp Leu Gly Gly Lys His Ser Pro Ile Cys
710                 565                 570                 575
711 His Thr Thr Met Ala Phe Leu Arg Asp Glu Ala Asp Phe Arg Asp Lys
712                 580                 585                 590
713 Leu Ser Pro Ile Val Leu Ser Leu Asn Val Ser Leu Pro Pro Thr Glu
714         595                 600                 605
715 Ala Gly Met Ala Pro Ala Val Val Leu His Gly Asp Thr His Val Gln
716     610                 615                 620
717 Glu Gln Thr Arg Ile Val Leu Asp Ser Gly Glu Asp Asp Val Cys Val
718 625                 630                 635                 640
719 Pro Gln Leu Gln Leu Thr Ala Ser Val Thr Gly Ser Pro Leu Leu Val
720                 645                 650                 655
721 Gly Ala Asp Asn Val Leu Glu Leu Gln Met Asp Ala Ala Asn Glu Gly
722             660                 665                 670
723 Glu Gly Ala Tyr Glu Ala Glu Leu Ala Val His Leu Pro Gln Gly Ala
724         675                 680                 685
725 His Tyr Met Arg Ala Leu Ser Asn Val Glu Gly Phe Glu Arg Leu Ile
726     690                 695                 700
727 Cys Asn Gln Lys Lys Glu Asn Glu Thr Arg Val Val Leu Cys Glu Leu
728 705                 710                 715                 720
729 Gly Asn Pro Met Lys Lys Asn Ala Gln Ile Gly Ile Ala Met Leu Val
730                 725                 730                 735
731 Ser Val Gly Asn Leu Glu Glu Ala Gly Glu Ser Val Ser Phe Gln Leu
732             740                 745                 750
733 Gln Ile Arg Ser Lys Asn Ser Gln Asn Pro Asn Ser Lys Ile Val Leu
734         755                 760                 765
735 Leu Asp Val Pro Val Arg Ala Glu Ala Gln Val Glu Leu Arg Gly Asn
736     770                 775                 780
737 Ser Phe Pro Ala Ser Leu Val Val Ala Ala Glu Glu Gly Glu Arg Glu
738 785                 790                 795                 800
739 Gln Asn Ser Leu Asp Ser Trp Gly Pro Lys Val Glu His Thr Tyr Glu
740                 805                 810                 815
741 Leu His Asn Asn Gly Pro Gly Thr Val Asn Gly Leu His Leu Ser Ile
742             820                 825                 830
743 His Leu Pro Gly Gln Ser Gln Pro Ser Asp Leu Leu Tyr Ile Leu Asp
744         835                 840                 845
745 Ile Gln Pro Gln Gly Gly Leu Gln Cys Phe Pro Gln Pro Pro Val Asn
746     850                 855                 860
747 Pro Leu Lys Val Asp Trp Gly Leu Pro Ser Pro Ser Pro Ser Pro Ile
748 865                 870                 875                 880
749 His Pro Ala His His Lys Arg Asp Arg Arg Gln Ile Phe Leu Pro Glu
750                 885                 890                 895
```

RAW SEQUENCE LISTING DATE: 01/08/2002
PATENT APPLICATION: US/10/017,828 TIME: 15:06:51

Input Set : A:\50211.015003.SEQLIST.TXT
Output Set: N:\CRF3\01082002\J017828.raw

```
751 Pro Glu Gln Pro Ser Arg Leu Gln Asp Pro Val Leu Val Ser Cys Asp
752             900                 905                 910
753 Ser Ala Pro Cys Thr Val Val Gln Cys Asp Leu Gln Glu Met Ala Arg
754         915                 920                 925
755 Gly Gln Arg Ala Met Val Thr Val Leu Ala Phe Leu Trp Leu Pro Ser
756     930                 935                 940
757 Leu Tyr Gln Arg Pro Leu Asp Gln Phe Val Leu Gln Ser His Ala Trp
758 945                 950                 955                 960
759 Phe Asn Val Ser Ser Leu Pro Tyr Ala Val Pro Pro Leu Ser Leu Pro
760                 965                 970                 975
761 Arg Gly Glu Ala Gln Val Trp Thr Gln Leu Leu Arg Ala Leu Glu Glu
762             980                 985                 990
763 Arg Ala Ile Pro Ile Trp Trp Val Leu Val Gly Val Leu Gly Gly Leu
764         995                 1000                1005
E--> 765
Leu Leu Leu Thr Ile Leu Val Leu Ala Met Trp Lys Val Gly Phe Phe
1010                1015
```

same

VERIFICATION SUMMARY DATE: 01/08/2002
PATENT APPLICATION: US/10/017,828 TIME: 15:06:52

Input Set : A:\50211.015003.SEQLIST.TXT
Output Set: N:\CRF3\01082002\J017828.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:272 M:252 E: No. of Seq. differs, <211>LENGTH:Input:788 Found:768 SEQ:3
L:375 M:252 E: No. of Seq. differs, <211>LENGTH:Input:788 Found:768 SEQ:4
L:436 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:13
L:436 M:252 E: No. of Seq. differs, <211>LENGTH:Input:3303 Found:3180 SEQ:5
L:497 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:13
L:497 M:252 E: No. of Seq. differs, <211>LENGTH:Input:3303 Found:3180 SEQ:6
L:631 M:252 E: No. of Seq. differs, <211>LENGTH:Input:1039 Found:1008 SEQ:7
L:765 M:252 E: No. of Seq. differs, <211>LENGTH:Input:1039 Found:1008 SEQ:8